

Message Text

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SUBJECT: SCIENCE AND TECHNOLOGY - TEXT OF AGREED MINUTES
FOR MEETINGS HELD JANUARY 27-19, 1975

1. THE INDIA-U.S. SUBCOMMISSION ON SCIENCE AND TECHNOLOGY
MET ON THE 27, 28, AND 29 OF JANUARY 1975 IN WASHINGTON,
D.C., U.S.A. THE MEETING WAS JOINTLY PRESIDED OVER BY
DR. DIXY LEE RAY; U.S. ASSISTANT SECRETARY OF STATE FOR
OCEANS AND INTERNATIONAL ENVIRONMENTAL AND SCIENTIFIC
AFFAIRS AND BY DR. B.D. NAG CHAUDHURI, VICE CHANCELLOR,
JAWAHARLAL NEHRU UNIVERSITY, NEW DELHI, INDIA. A LIST
OF THE INDIAN AND UNITED STATES MEMBERS IS APPENDED AT
ANNEX A.

2. THE TWO CHAIRMEN NOTED THE LONG AND FRUITFUL HISTORY
OF INDIA-U.S. COOPERATION IN SCIENCE AND TECHNOLOGY AND
THE CLOSE TIES THAT HAVE EXISTED BETWEEN THE SCIENTIFIC
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AND TECHNOLOGICAL COMMUNITIES IN THE TWO COUNTRIES. BOTH
EXPRESSED THE DESIRE TO IMPROVE THE EFFECTIVENESS OF
COOPERATION AND ESTABLISH NEW PROGRAMS IN A SPIRIT OF
MUTUAL BENEFIT MARKED BY THE VISIT OF SECRETARY KISSINGER

TO INDIA IN OCTOBER 1974 AND THE SIGNING OF THE INDIA-U.S. AGREEMENT TO ESTABLISH THE JOINT COMMISSION ON ECONOMIC, COMMERCIAL, SCIENTIFIC, TECHNOLOGICAL, EDUCATIONAL AND CULTURAL COOPERATION AT THAT TIME.

3. AMBASSADOR T.N. KAUL ADDRESSED THE MEETING AND UNDERScoreD THE VALUE AND SPIRIT OF THE NEW PROCESS OF COOPERATION THROUGH THE JOINT COMMISSON AND THE SPECIAL SIGNIFICANCE OF SCIENCE AND TECHNOLOGY IN THIS CONTEXT.

4. WORKING GROUPS WERE ESTABLISHED TO CONSIDER THE PRIORITIES AND MODALITIES FOR COOPERATIVE ACTION IN THE AREAS OF AGRICULTURE, ENERGY AND NATURAL RESOURCES, HEALTH, ELECTRONICS AND COMMUNICATION, ENVIRONMENT AND EXCHANGE OF SCIENTISTS AND INFORMATION. BASED ON THEIR DELIBERATIONS, THE FOLLOWING RECOMMENDATIONS WERE ADOPTED. THE REPORTS OF THE WORKING GROUPS WERE DISCUSSED IN PLENARY SESSION AND APPROVED IN PRINCIPLE AS INITIAL WORKING DOCUMENTS. THEY ARE APPENDED AT ANNEX B.

(I) AGRICULTURE: PROJECTS WILL BE DEVELOPED IN:

(A) EFFICIENT USE OF WATER IN ARID ZONES THROUGH DIFFERENT IRRIGATION METHODS SUCH AS DRIP, AND SPRINKLER, INCLUDING EVOLUTION OF SUITABLE TECHNOLOGY FOR USE OF SALINE WATERS TO ENHANCE AGRICULTURAL PRODUCTION.

(B) HYDROLOGICAL STUDIES OF SMALL WATERSHEDS WITH SPECIAL REFERENCE TO REDUCTION OF SOIL EROSION AND SEDIMENTATION AND EVOLUTION OF CRITERIA FOR SOIL CONSERVATION STRUCTURES, RUNOFF RESERVOIRS AND DRAINAGE SYSTEMS FOR AREAS WITH DIFFERENT VEGETATIVE COVERAGE AND LAND USE.

(C) INTEGRATED PEST CONTROL TO REDUCE THE HAZARDS FROM LIMITED OFFICIAL USE
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USE OF PESTICIDES TO DEVELOP PRACTICES THAT ARE LEAST DISRUPTIVE TO AGRO-ECO SYSTEMS.

(D) FORESTRY RESEARCH IN INTENSIVE PLANTATION FOR SOFT PULP WOOD FOR INDUSTRIAL APPLICATIONS, FUEL WOODS, AND ENERGY PLANTATIONS.

(E) GROUND WATER STUDIES WITH PARTICULAR REFERENCE TO RECHARGE OF UNDERGROUND AQUIFERS FOR CONJUNCTIVE USE OF GROUND AND SURFACE WATERS.

(F) SYSTEMS ANALYSIS FOR WATER RESOURCE DEVELOPMENT FOR

OPTIMUM COORDINATION OF DIFFERENT PARAMETERS INCLUDING THOSE ASSOCIATED WITH CROPPING PATTERNS.

(G) COASTAL AQUACULTURE TO DEVELOP MARINE ORGANISMS AND FISHERIES FOR INCREASED FOOD PROTEIN RESOURCES.

(II) ENERGY AND NATURAL RESOURCES: PROJECTS WILL BE DEVELOPED IN:

(A) COAL GASIFICATION AND LIQUEFACTION BY CARRYING OUT TECHNO-ECONOMIC STUDIES OF PROCESSES AND ENGINEERING EVALUATION THROUGH INVESTIGATIONS IN LABORATORIES AND ON PROTOTYPES TO ENABLE OPTIMUM UTILIZATION OF COAL.

(B) FLUIDIZED BED COMBUSTION OF COAL CONSISTING OF EXCHANGE OF INFORMATION ON ATMOSPHERIC COMBUSTORS OR BOILERS AND STUDIES ON PRESSURIZED FLUID BED COMBUSTORS OR BOILERS FOR USE IN POWER CYCLES TO ACHIEVE CHEAPER AND MORE EFFICIENT BOILERS AND POWER GENERATING SYSTEMS.

(C) BIO-CONVERSION OF WASTES INTO ENERGY AND PROTEIN CONSISTING OF EXCHANGES OF INFORMATION ON ENZYME STUDIES AND RESEARCH TO PRODUCE FERTILIZERS, PROTEINS AND ALCOHOLS AND OTHER ENERGY PRODUCING SUBSTANCES THAT UTILIZE CELLULOSIC OR OTHER WASTES.

(D) ENERGY CONSERVATION RESEARCH TO DEVELOP METHODS OF EFFICIENT CONSERVATION AND MANAGEMENT OF SYSTEMS LEADING TO SIGNIFICANT SAVINGS IN ENERGY.

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(E) CORROSION RESEARCH WITH INITIAL EMPHASIS ON STRESS CORROSION RELATING TO ESTABLISHMENT OF REQUIREMENTS AND TECHNIQUES TO MINIMIZE CORROSION AND TO INCREASE THE LIFESPAN OF PRODUCTS.

(F) MATERIALS CONSERVATION THROUGH RESEARCH IN NON-DESTRUCTIVE EVALUATION AND IMPROVEMENT OF LIFE-SPAN BY BETTER DESIGN; AND BY USE OF ALTERNATE NON-CONVENTIONAL MATERIALS SUCH AS INDUSTRIAL AND BIOLOGICAL WASTES FOR MORE EFFICIENT MATERIALS MANAGEMENT.

(G) SOLAR ENERGY RESEARCH ON SYSTEMS, COLLECTORS AND MATERIALS FOR APPLICATIONS IN HEATING AND REFRIGERATION, BIO-CONVERSION, DRYING TECHNIQUES AND MINI-POWER PLANTS.

(H) STUDIES ON COMPUTER APPLICATIONS FOR PETROLEUM EXPLORATION AND DATA PROCESSING BY DEVELOPMENT AND EXCHANGE OF SOFTWARE FOR ENHANCING THE EFFECTIVENESS OF EXPLORATION TECHNIQUES.

(I) RESEARCH STUDIES ON DAM DESIGN AND CONSTRUCTION
RELATING TO ANALYSIS, DESIGN AND SAFETY OF WATER
STORAGE STRUCTURES.

PROJECTS WILL ALSO BE EXPLORED IN AREAS OF GEOLOGICAL
RESEARCH.

(III) HEALTH: PROJECTS WILL BE DEVELOPED IN:

(A) COMMUNICABLE AND INFECTIOUS DISEASES WITH PARTICULAR
EMPHASIS ON PREVENTION AND CONTROL TECHNIQUES.

(B) REPRODUCTIVE BIOLOGY AND FERTILITY CONTROL.

(C) HEALTH DELIVERY SYSTEMS FOR EFFICIENT UTILIZATION
OF MEDICAL AND PARA MEDICAL MANPOWER.

(D) NUTRITIONAL, METABOLIC AND DEGENERATIVE DISEASES
SUCH AS DIABETES, CANCER, STROKE AND HEART DISEASES.

(D) TOXICOLOGICAL RESEARCH IN NATURALLY OCCURRING
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TOXINS IN FOODS, PESTICIDES AND DRUG RESIDUES.

(IV) ELECTRONICS AND COMMUNICATIONS: PROJECTS WILL BE
DEVELOPED IN:

(A) ELECTRONICS TO STUDY PARAMETERS ASSOCIATED WITH
THE CRITERIA AND METHODOLOGIES IN ESTABLISHING STANDARDS
FOR ELECTRONIC MATERIALS AND COMPONENTS AND FOR
RELIABILITY EVALUATION AND LIFE TEST FOR ACTIVE AND
PASSIVE COMPONENTS UNDER CONDITIONS OBTAINING IN THE
TWO COUNTRIES.

(B) RADIO COMMUNICATIONS RELATING TO WAVE PROPAGATION
STUDIES ASSOCIATED WITH THE ALLOCATION AND USE OF
DIFFERENT RADIO FREQUENCIES FOR TELECOMMUNICATIONS.

(C) UPDATING THE PROGRAM DESCRIPTIONS OF U.S. PROGRAMS
IN THESE AREAS.

PROJECTS WILL ALSO BE EXPLORED IN RURAL TELECOMMUNICA-
TIONS TO UNDERTAKE SYSTEMATIC STUDIES FOR ENHANCING
COMMUNICATION FACILITIES IN RURAL AREAS.

(V) ENVIRONMENT: PROGRAMS WILL BE DEVELOPED IN:

(A) GASEOUS AND FLUID EFFLUENTS FROM INDUSTRY FOR
DETERMINING SAFETY STANDARDS TO REDUCE THE COST OF
MONITORING ENVIRONMENTAL QUALITY ESPECIALLY WITH
REFERENCE TO WATER.

(B) AIR POLLUTION STUDIES ON THE NATURE OF THE REQUIREMENTS IN THE TWO COUNTRIES.

(C) PROBLEMS OF RURAL ENVIRONMENT TO PROVIDE SANITARY CONDITIONS AS WELL AS WASTES UTILIZATION.

(D) ECOSYSTEMS FROM THE POINT OF VIEW OF EQUILIBRIUM OF PLANT AND ANIMAL SYSTEMS.

(E) STANDARDS AND PERFORMANCE EVALUATION OF MONITORING DEVICES AND TECHNIQUES IN EVOLVING ENVIRONMENTAL CRITERIA.
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(VI) EXCHANGE OF SCIENTISTS AND INFORMATION:

PROGRAMS WILL BE DEVELOPED TO BROADEN THE EXCHANGE OF SCIENTISTS AND TECHNOLOGISTS TO ACHIEVE THE OBJECTIVES OF COOPERATIVE AREAS IDENTIFIED BY THE SUBCOMMISSION, TO ENCOURAGE AN INCREASING FLOW OF IDEAS AND INFORMATION THROUGH CONFERENCES AND SEMINARS, FOR RECIPROCAL PUBLICATION OF IMPORTANT SCIENTIFIC JOURNALS OF THE TWO COUNTRIES, AND TO SHARE EXPERIENCES IN INFORMATION SYSTEMS THROUGH EXCHANGE OF DOCUMENTS AND SOFTWARE.

5. IMPLEMENTATION WILL BE EFFECTED BY EXCHANGES OF INFORMATION; DATA AND RESEARCH REPORTS; VISITS BY TECHNICAL EXPERTS; JOINT OR COMPLEMENTARY RESEARCH; EXCHANGES OF EQUIPMENT, AND JOINT DEVELOPMENT OF PROTOTYPES; IN COOPERATION WITH ACADEMIC AND RESEARCH INSTITUTIONS IN THE TWO COUNTRIES.

6. TO FACILITATE DEVELOPMENT AND EFFICIENT IMPLEMENTATION OF THE COOPERATIVE PROGRAMS IDENTIFIED BY THE SUBCOMMISSION, THE MEMBERS OF THE JOINT SUB-COMMISSION WILL SERVE AS PROGRAM COORDINATORS RESPONSIBLE FOR THE DEVELOPMENT OF SPECIFIC PROJECTS IN THEIR RESPECTIVE AREAS.

7. THE SUBCOMMISSION RECOMMENDS THAT A BEGINNING BE MADE IMMEDIATELY IN THESE AREAS AND THAT PROGRAM COORDINATORS SUBMIT TO THE JOINT COMMISSION BY THE END OF FEBRUARY SPECIFIC PLANS OF ACTION FOR FURTHERING COOPERATION IN THEIR RESPECTIVE AREAS.

8. THE SUBCOMMISSION ALSO AGREED THAT ON-GOING PROGRAMS AND COOPERATION IN THE FIELDS OF EXCHANGE OF SCIENTISTS AND INFORMATION SYSTEMS SHOULD BE REVIEWED IN LIGHT OF PRIORITIES AGREED UPON BY THE SUBCOMMISSION.

9. EFFECTIVE LIAISON WITH THE PROGRAM COORDINATORS

IN THE TWO COUNTRIES WILL BE MAINTAINED THROUGH
DR. M. ANANDAKRISHNAN, DR. R.D. DESHPANDE AND DR. W.W.
WILLIAMS AND MR. A.E. RICHMOND. KISSINGER
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